

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOD FURTHER	Ned Gardin of					
PC03016-LG	FOR FURTHER ACTION	(Form PCT/ISA/22	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.				
International application No.	International filing date (	(day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/KR03/01655	14 AUGUST 2003 (14	4.08.2003)	14 AUGUST 2002 (14.08.2002)				
Applicant							
LG LIFE SCIENCES LTD. et al			_				
This to the same and the bear near							
to Article 18. A copy is being transmitted to the	ared by this international he International Bureau.	Searching Authority	and is transmitted to the applicant according				
This international search report consists of a to							
It is also accompanied by a copy		= .	_				
	y or each prior are accumu	int ened in this report	<u> </u>				
1. Basis of the report		· · · · · · · · · · · · · · · · · · ·					
a. With regard to the language, the inte- language in which it was filed, unless	mational search was can so otherwise indicated und	ried out on the basis of er this item.	of the international application in the				
			rnational application furnished to this				
b. With regard to any nucleotide and/e	or amino acid sequence (	disclosed in the interr	national application, the international search				
was carried out on the basis of the se	equence listing:		and approximation and an arrangement of the second				
Contained in the international a							
illed together with the internation	•						
furnished subsequently to this A	-						
furnished subsequently to this A							
international application as filed	d has been furnished.		ot go beyond the disclosure in the				
the statement that the information furnished.	on recorded in computer re	eadable form is ident	tical to the written sequence listing has been				
2. X Certain claims were found uns	searchable (See Box I).						
3. Unity of invention is lacking (S	See Box II).						
4. With regard to the title,							
X the text is approved as submitted	by the applicant.						
the text has been established by	this Authority to read as	follows:					
5. With regard to the abstract,							
the text is approved as submitted	• • •						
			appears in Box III. The applicant may,				
			ubmit comments to this Authority.				
6. The figure of the drawing to be publis	shed with the abstract is F	igure No.					
as suggested by the applicant.			X None of the figures				
because the applicant failed to su	iggest a figure.						
because this figure better characterizes the invention.							
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# INTERNATION. SEARCH REPORT

International application No. CT/KR03/01655

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: 29-33 because they relate to subject matter not required to be searched by this Authority, namely: Claims 29 to 33 pertain to methods for treatment of the human or animal body by therapy, as well as diagnostic methods, ar relate a subject matter which this International Searching Authority is not required, under Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.	nd i
2. Claims Nos.: because they relate to part of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:	
3. Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	1
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Search Authority found multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.	
2. As all searchable claims could be established without effort justifying an additional fee, this Authority did not invite payment of any addition fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest	
No protest accompanied the payment of additional search fees.	

### CLASSIFICATION OF SUBJECT MATTER

#### IPC7 C07H 21/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 C07H 21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) All non-redundant GenBank+PDB+SwissProt+PIR+PRF, Korean Patents and applications for inventions since 1975

#### DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	Mammalian Gene Collection (MGC) Program Team 'Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences' In Proceedings of the National Academic of Science, U. S. A. (24. Dec. 2002) Vol. 99(26):16899-16903	1-17, 27-28, 34
X, P	TROELS WABAKKEN, EDITH RIAN, MARIT KVEINE, HANS-CHRISTIAN AASHEIM 'The human solute carrier SLC41A1 belongs to a novel eukaryotic subfamily with homology to prokaryotic MgtE Mg2+ transporters' In Biochem. Biophys. Res. Commun. (Jul. 2003) Vol. 306(3):718-724	1, 10-20, 27-28, 34
x	Accession No. AK093380 (15. Jul. 2002)	1, 4-6, 11-14, 18-20, 27-28
x	Accession No. BAB14241 (1. Aug. 2002)	1, 11-14, 18-20, 27-28, 34
x	Accession No. BAC03717 (15. Jul. 2002)	1, 11-14, 18-20, 27-28, 34

	Further of	documents ar	e listed in	the continuation	of Box C.
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See patent family annex.

- Special categories of cited documents:
- document defining the general state of the art which is not considered to be of particular relevance
- earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed
- later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

01 DECEMBER 2003 (01.12.2003)

Date of mailing of the international search report 02 DECEMBER 2003 (02.12.2003)

Name and mailing address of the ISA/KR



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